

NOTES

F. A. PROJECT NO.

ASSUMED LIVE LOAD -----HS20-44 OR ALTERNATE LOADING.

DESIGN FILL-----

FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET.

3"Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.

CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER:

1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4"
OF ALL VERTICAL WALLS.

2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL
HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.

THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE
STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE
OF THE FILL.

THIS BARREL STANDARD TO BE USED ONLY ON CULVERT ON 45° SKEW AND TO
BE USED WITH STANDARD WING SHEET WITH THE SAME SKEW AND VERTICAL
CLEARANCE.

DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL
EMBEDDED IN BARREL ARE SHOWN ON WING SHEET.

TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED
TO LIMIT THE POURS TO A MAXIMUM OF 70 FT. LOCATION OF JOINTS SHALL
BE SUBJECT TO APPROVAL OF THE ENGINEER.

STEEL IN THE BOTTOM SLAB MAY BE SPICED AT THE PERMITTED CONSTRUCTION
JOINT AT THE CONTRACTOR'S OPTION, EXTRA WEIGHT OF STEEL DUE TO THE SPLICES
SHALL BE PAID FOR BY THE CONTRACTOR.

AT THE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL
IN THE INTERIOR FACE OF EXTERIOR WALL AND BOTH FACES OF INTERIOR WALLS
ABOVE LOWER WALL CONSTRUCTION JOINT, THE SPLICE LENGTH SHALL BE AS PROVIDED
IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS, EXTRA WEIGHT OF STEEL DUE
TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.

AT THE CONTRACTOR'S OPTION HE MAY SUBMIT, TO THE ENGINEER FOR APPROVAL,
DESIGN AND DETAIL DRAWINGS FOR A PRECAST REINFORCED CONCRETE BOX CULVERT
IN LIEU OF THE CAST-IN-PLACE CULVERT SHOWN ON THE PLANS. THE DESIGN SHALL
PROVIDE THE SAME SIZE AND NUMBER OF BARRELS AS USED ON THE CAST-IN-PLACE
DESIGN. FOR OPTIONAL PRECAST REINFORCED CONCRETE BOX CULVERT, SEE SPECIAL
PROVISIONS.

LOCATION SKETCH

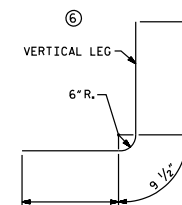
TOTAL STRUCTURE QUANTITIES	
CLASS A CONCRETE	
BARREL @ _____ CY/FT _____	C.Y.
WING ETC. _____	C.Y.
TOTAL _____	C.Y.
REINFORCING STEEL	
BARREL _____	LBS.
WINGS ETC. _____	LBS.
TOTAL _____	LBS.

PROJECT NO. _____

_____ COUNTY

STATION: _____

SHEET 2 OF 2



BAR TYPE

BAR DIMENSIONS ARE OUT TO OUT

PROFILE ALONG C CULVERT

ADDED NOV. 1990

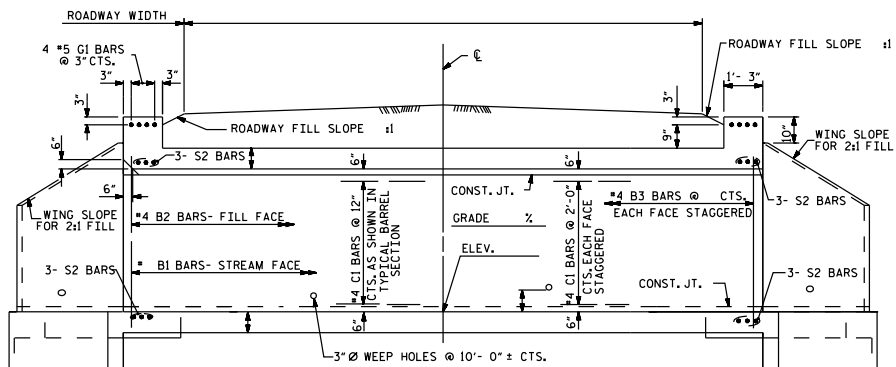
ASSEMBLED BY : _____ DATE : _____
CHECKED BY : _____ DATE : _____
DRAWN BY : B.J. MEYERS DATE : OCT. 1989
CHECKED BY : A.R. BISSETTE DATE : NOV. 1990

SPECIAL
STANDARD

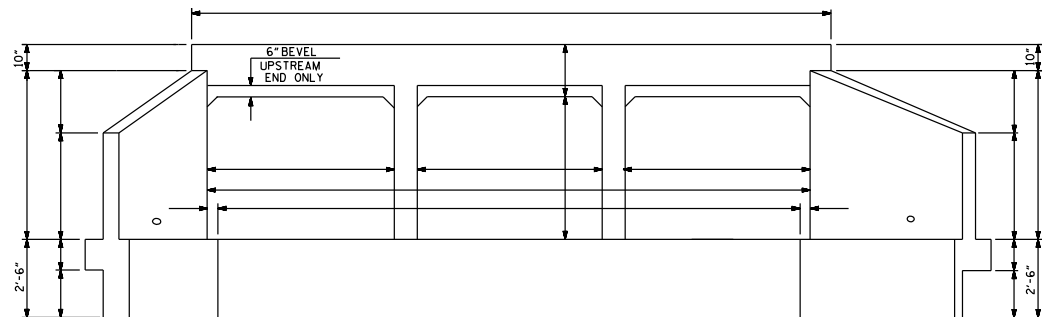
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH BARREL STANDARD TRIPLE FT. X FT. CONCRETE BOX CULVERT WITH VERTICAL CLEARANCE OF LESS THAN 8 FT. 45° SKEW					1989
OCT.					
REVISIONS					SHEET NO.
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		
					TOTAL SHEETS

STD. NO. CB43A

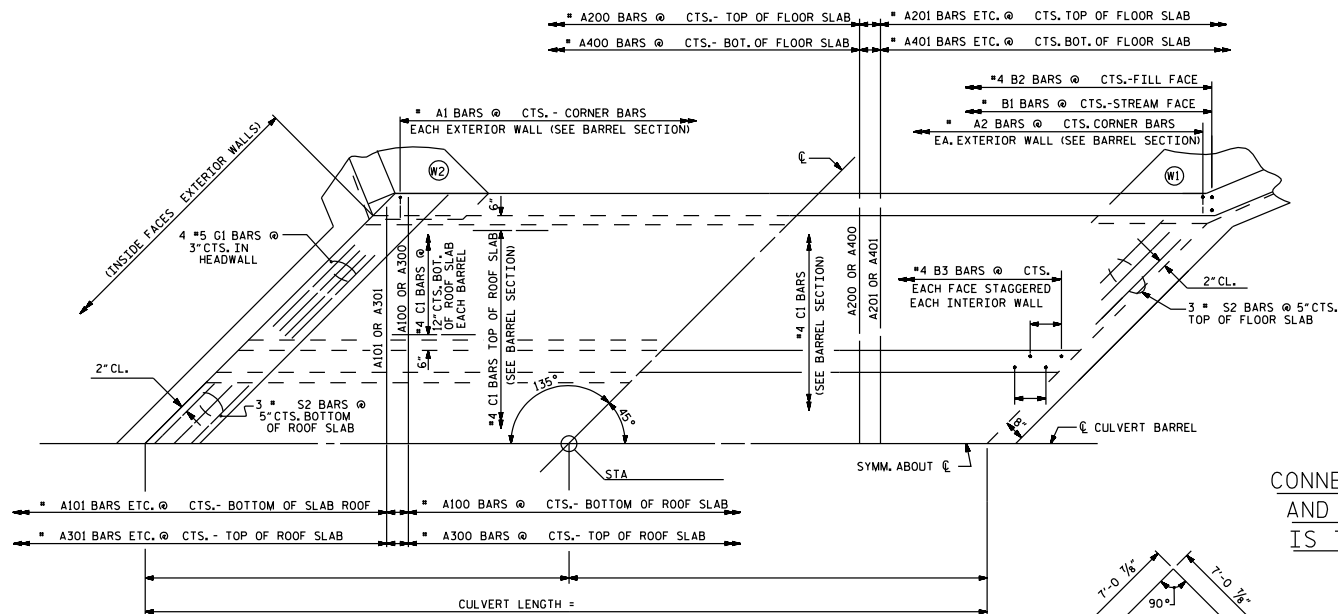
*****SYTIME*****
*****DOCN*****
*****RANGE*****



EXTERIOR WALL INTERIOR WALL
CULVERT SECTION NORMAL TO ROADWAY

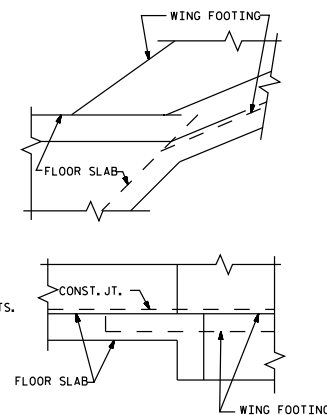


END ELEVATION NORMAL TO SKEW

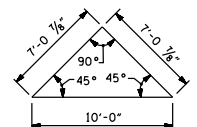


PART PLAN - ROOF SLAB

PART PLAN - FLOOR SLAB



DETAIL
CONNECTION OF WING FOOTING
AND FLOOR SLAB WHEN SLAB
IS THICKER THAN FOOTING



SKEW TRIANGLE

PROJECT NO. _____
COUNTY _____
STATION: _____

SHEET 1 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
BARREL STANDARD
TRIPLE FT. X FT.
CONC. BOX CULVERT WITH
VERTICAL CLEARANCE OF
LESS THAN 8 FT. 45° SKEW
1972

REVISIONS				SHEET NO.	
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

STD. NO. CB43

REVISED 11-18-99 BY M.A. CHECKED BY R.M.A.
REVISED 8-28-92 BY E.L.P. CHECKED BY G.A.P.
DESIGNED BY M.A. REVISED 05-27-90 CHECKED BY A.B. WISSETTE

ASSEMBLED BY : _____	DATE : _____	SPECIAL STANDARD
CHECKED BY : _____	DATE : _____	
DRAWN BY : DANNY SHERROD	DATE : 4-24-72	
CHECKED BY : F.M.H.	DATE : 5-3-72	